

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A post filtering method for eliminating jagged effects before outputting graphic image in accordance with the characteristics of each of a pixel to determine if the pixel needs to undergo ~~perform~~ filtering comprising the following steps:

(a) judging if a ~~coordinate~~-Z-value of ~~the~~ a pixel's is equal to zero, if it is, then do not perform filtering to the pixel; and

(b) if the ~~coordinate~~-Z-value of the pixel is not equal to zero, then judging if the pixel is located at the intersection of a Z-plane, if it is, then performs filtering to the pixel.

2. (Currently Amended) The post filtering method for eliminating jagged effects of claim 1 further comprising the following steps:

(c) if the pixel is not located at the intersection of the Z-plane, then judging if the pixel is located at a constant-Z plane, if it is not, then do not perform filtering to the pixel; and

(d) if the pixel is located at the constant-Z plane, then judging if a color variation value of the pixel is greater than a threshold value, if it is, then performs filtering to the pixel.

3. (Previously Presented) The post filtering method for eliminating jagged effects of claim 1, wherein a device for performing filtering action is a digital filter.

4. (Currently Amended) A post filtering method for eliminating jagged effects before outputting graphic image in accordance with the characteristics of each of the pixels to determine if a pixel needs to undergo ~~perform~~ filtering comprising the following steps:

(a) judging if a ~~coordinate~~-Z-value of the ~~a~~ pixel is equal to zero, if it is, then do not perform filtering to the pixel;

(b) if the ~~coordinate~~-Z-value of the pixel is not equal to zero, then judging if the pixel is located at the intersection of a Z-plane, if it is, then performs filtering to the pixel;

(c) if the pixel is not located at the intersection of the Z-plane, then judging if the pixel is located at a constant-Z plane, if it is not, then do not perform filtering to the pixel; and

(d) if the pixel is located at the constant-Z plane, then judging if a color variation value of the pixel is greater than a threshold value, if it is, then performs filtering to the pixel.

5. (Original) The post filtering method for eliminating jagged effects of claim 4, wherein a device for performing filtering action is a digital filter.

6. (New) A post filtering method for eliminating jagged effects before outputting graphic image, comprising:

determining whether a pixel needs to undergo filtering or not; and filtering the pixel if the pixel needs to undergo filtering.

7. (New) The post filtering method as described in claim 6, wherein the determining step further comprises:

judging if a Z-value of the pixel is equal to zero, if it is, then the pixel does not need to undergo filtering.

8. (New) The post filtering method as described in claim 7, wherein if the Z-value of the pixel is not equal to zero, then the determining step further comprises:

judging if the pixel is located at the intersection of a Z-plane, if it is, the pixel needs to undergo filtering.

9. (New) The post filtering method as described in claim 8, wherein if the pixel is not located at the intersection of the Z-plane, then the determining step further comprises:

judging if a color variation value of the pixel is greater than a threshold value, if it is, then the pixel needs to undergo filtering.

10. (New) The post filtering method as described in claim 8, wherein if the pixel is not located at the intersection of the Z-plane, then the determining step further comprises:

judging if the pixel is located at a constant-Z plane, if it is not, then the pixel does not need to undergo filtering.

11. (New) The post filtering method as described in claim 10, wherein if the pixel is located at the constant-Z plane, then the determining step further comprises:

judging if a color variation value of the pixel is greater than a threshold value, if it is, the pixel needs to undergo filtering.

12. (New) The post filtering method as described in claim 6, wherein the determining step further comprises:

judging if the pixel is located at the intersection of a Z-plane, if it is, then the pixel needs to undergo filtering.

13. (New) The post filtering method as described in claim 12, wherein if the pixel is not located at the intersection of the Z-plane, then the determining step further comprises:

judging if a color variation of the pixel is greater than a threshold value, if it is, then the pixel needs to undergo filtering.

14 (New) The post filtering method as described in claim 12, wherein if the pixel is not located at the intersection of the Z-plane, then the determining step further comprises:

judging if the pixel is located at a constant-Z plane, if it is not, then the pixel does not need to undergo filtering.

15. (New) The post filtering method as described in claim 14, wherein if the pixel is not located at the constant-Z plane, then the determining step further comprises:

judging if a color variation of the pixel is greater than a threshold value, if it is, then pixel needs to undergo filtering.

16. (New) The post filtering method as described in claim 6, wherein the determining step uses characteristics of each of the pixel.

17. (New) The post filtering method as described in claim 16, wherein the determining step further comprises:

judging if the pixel is located at the intersection of a Z-plane, if it is, then the pixel needs to undergo filtering.

18. (New) The post filtering method as described in claim 17, wherein if the pixel is not located at the intersection of the Z-plane, then the determining step further comprises:

judging if a color variation of the pixel is greater than a threshold value, if it is, then the pixel needs to undergo filtering.

19. (New) The post filtering method as described in claim 17, wherein if the pixel is not located at the intersection of the Z-plane, then the determining step further comprises:

judging if the pixel is located at a constant-Z plane, if it is not, then the pixel does not need to undergo filtering.

20. (New) The post filtering method as described in claim 19, wherein if the pixel is not located at the constant-Z plane, then the determining step further comprises:

judging if a color variation of the pixel is greater than a threshold value, if it is, then the pixel needs to undergo filtering.